OLTREMARE
LIQUID SEPARATION

# Model LOW4-4014

Extra Low Energy, Excellent Productivity - Brackish Water Element

## Type

| Configuration: | Membrane Polymer: | Brine Spacer Material: |
|---|---|---|
| Spiral Wound | Composite Polyamide | Polypropylene |

## Specifications

| Permeate Flow: | Salt Rejection: | Nominal Membrane Area: |
|---|---|---|
| 500 gpd<br>*(1,89 $m^3$/d)* | 99,0% nominal<br>(98,0% minimum) | 19$ft^2$<br>*(1,8$m^2$)* |

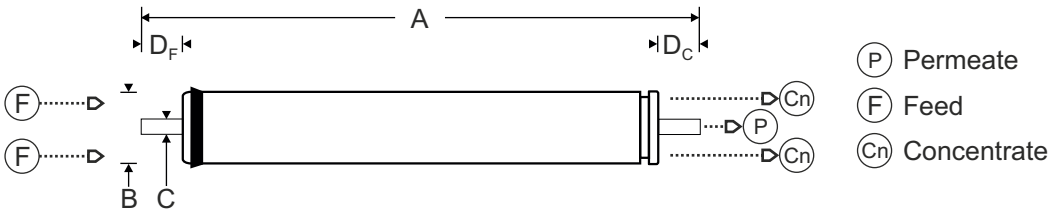
## Test Conditions

(After 30 min of operation)

| Solution NaCl | Applied Pressure: | Operating Temperature: | Permeate Recovery: | pH Range: |
|---|---|---|---|---|
| 500 ppm | 100 psi<br>*(6,9 bar)* | 77 °F<br>*(25 °C)* | 10% | 6,5 ÷ 7,0 |

## Dimensions

| A Total Length | B ATD Diameter | C Connection Diameter | $D_F$ Core Tube Extension Feed Side | $D_C$ Core Tube Extension Conc. Side | Weight |
|---|---|---|---|---|---|
| 14.0 inches<br>*(355,6 mm)* | 3.95 inches<br>*(100,3 mm)* | 0.75 inches<br>*(19,1 mm)* | 1.2 inches<br>*(30,5 mm)* | 1.2 inches<br>*(30,5 mm)* | 3 lbs<br>*(1,4 Kg)* |




## Maximum Operating Limits

| Operating Pressure Fiberglassed | Operating Pressure Tape Wrapped | Temperature | Pressure Drop | Feed Flow | Chlorine Concentration | Feedwater SDI (15min) | Feedwater Turbidity |
|---|---|---|---|---|---|---|---|
| 600 psi<br>*(41,4 bar)* | 300 psi<br>*(20,7 bar)* | 113 °F<br>*(45 °C)* | 10 psi<br>*(0,7 bar)* | 12 gpm<br>*(45,4 lpm)* | <0,1 ppm | 5,0 | 1,0 NTU |

## Other Operating Limits

| Feedwater pH | Minimum ratio of concentrate to permeate flow for any element |
|---|---|
| 3,0 ÷ 10,0 | 5:1 |

*The limitations shown in Operating Limits are for general use. The values may be more conservative for specific projects to ensure the best performance and longest life of the membrane.*

Notice: Minimum permeate flow for individual elements 20 percent below listed flow. Elements are vacuum sealed in a polyethylene bag containing less than 1.0% sodium meta-bisulfite and 10% propylene glycol solution.

Guidelines: Permeate obtained from first hour of operation should be discarded.
Avoid static permeate-side backpressure at all times.
These membranes may be subject to drinking water application restrictions in some countries: please check the application status before use and sale.
For element loading use only glycerine to lubricate o-rings and brine seal.